



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|--|----------------------------|--|--|
| (51) International Patent Classification ⁶ : H02K 15/085 | | A2 | (11) International Publication Number: WO 97/47067 |
| 8036 | | | (43) International Publication Date: 11 December 1997 (11.12.97) |
| (21) International Application Number: PCT/SE97/00905 | | (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, ES, FI, FI (Utility model), GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). | |
| (22) International Filing Date: 27 May 1997 (27.05.97) | | | |
| (30) Priority Data: | | | |
| 9602079-7 | 29 May 1996 (29.05.96) | SE | |
| 9602094-6 | 29 May 1996 (29.05.96) | SE | |
| 9700356-0 | 3 February 1997 (03.02.97) | SE | |
| (71) Applicant (for all designated States except US): ASEA BROWN BOVERI AB [SE/SE]; S-721 83 Västerås (SE). | | | |
| (72) Inventors; and | | Published | |
| (75) Inventors/Applicants (for US only): LEIJON, Mats [SE/SE]; Hyvlargatan 5, S-723 35 Västerås (SE). HÖLLELAND, Mons [SE/SE]; Fornforskargatan 52, S-723 53 Västerås (SE). KALLDIN, Hans-Olof [SE/SE]; Grenadjärgatan 9, S-723 46 Västerås (SE). TEMPLIN, Peter [SE/SE]; Dybecksgatan 4 B, S-731 40 Köping (SE). ROTHMAN, Bengt [SE/SE]; Profilgatan 16, S-723 36 Västerås (SE). IVARSON, Claes [SE/SE]; Barkarö Bygatan 221, S-725 91 Västerås (SE). GÖRAN, Bengt [SE/SE]; Vales väg 13, S-723 55 Västerås (SE). | | In English translation (filed in Swedish). Without international search report and to be republished upon receipt of that report. | |
| (74) Agent: STOLT, Lars, C.; L.A. Groth & Co. KB, P.O. Box 6107, S-102 32 Stockholm (SE). | | | |

(54) Title: A DEVICE IN THE STATOR OF A ROTATING ELECTRIC MACHINE AND SUCH A MACHINE

(57) Abstract

In the stator winding in a rotating electric machine the winding is situated in radial slots (111) in the stator (106). According to the invention the winding consists of a cable which forms layers at different radial distances from the air gap (108) between the rotor (107) and the stator (106). The part of the cable (101) that passes to and from once through the stator between different layers forms a coil (113) with an arc-shaped coil end protruding from each end surface (114) of the stator (106). The coils (113) are divided into coil group parts. All coils (113) in the same coil group part are arranged axially, one outside the other with substantially coinciding centres and with successively increasing diameters. The number of slots (111) that are bridged by the coils (113) successively increases within the coil group part.

